

PHENIX WEEKLY PLANNING

6/5/2008 Don Lynch



Shutdown '08 Schedule

Shutdown Prep Mu Trigger, RPC Prototype Installation, New Beampipe, CM Crane, Sta. 1 and MMN Scaffolding Reviews RPC Prototype C tests (in tent) Install/field fit CM access stairs Build MMN scaffolding Build Sta. 1 N. scaffolding MuTr Decapacitations (Sta. 1 N and MMN) RPC Prototype D tests (in tent) Design RPC installation fixtures & MuTrigger FEE platforms Prep work for Mutrgr platforms (water/elec) Prep work for RPC proptotype install move (7) MuID pipes move gap 5 south cable tray End of run Party

All Done, Action Items in progress in progress in progress in progress in progress ready to start 6/5 in progress June

May 30

Done



Shutdown '08 Schedule, cont'd

Prep RPC Proto, MuTrggr FEE N&S Racks Apr-July RPC engineering & safety review ~June 24 MuTrigger FEE N Install July - Aug. Install MuTrigger N cooling water & air July - Aug. July - Aug RPC prototype gas system Move shielding for RPC prototype installation July - Sep RPC prototype cable routing & support July - Aug Modify crystal palace & vapor barrier July - Aug Install MuTrigger FEE N platform&Rack **July 15 - Aug 1** RPC prototype install Sep.-Oct. (RPC2 - PHENIX) (RPC3 - C. Pearson) Install RPC prototype rack in tunnel south Sep. Install Mutrigger FEE's in MMS for RPC test Sep. Install MuTrigger FEE South platform Sep. Install MuTrgr S rack cooling & electric Sep. **HBD** Install Sep.-Oct. Connect electronics/gas/water/air for RPC Sep. - Nov. PC1 west work (needs planning) Sep. - Nov. CM Crane Install Oct. Oct. - Nov. DC East?/West Repairs Replace tunnel shielding Nov. (C. Pearson)



Shutdown '08 Schedule, cont'd

Remove all inst'n equipment(e.g. scaffolds)

Gap 5 north piping and cable tray re-loc.

Gap 2 north cable tray & crate re-mounts

Fan Tray maintenance

Prep for shutdown 2009

Prep for run 9

Close shield wall start shifts

Start physics

Oct. - Nov Oct. - Dec. Oct. - Dec Oct. - Dec. Nov. - Dec

Dec Dec. Jan 1







MMN Scaffolding under construction

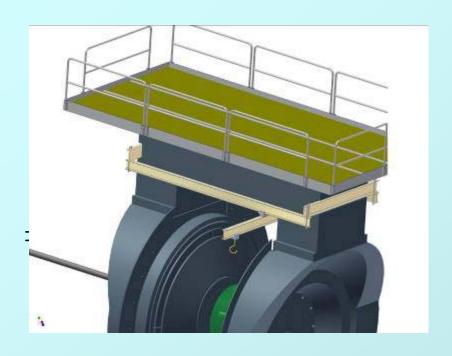




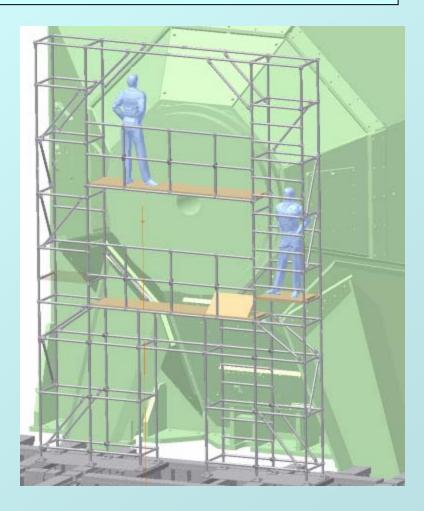








CM Crane procurement postponed Until FY09

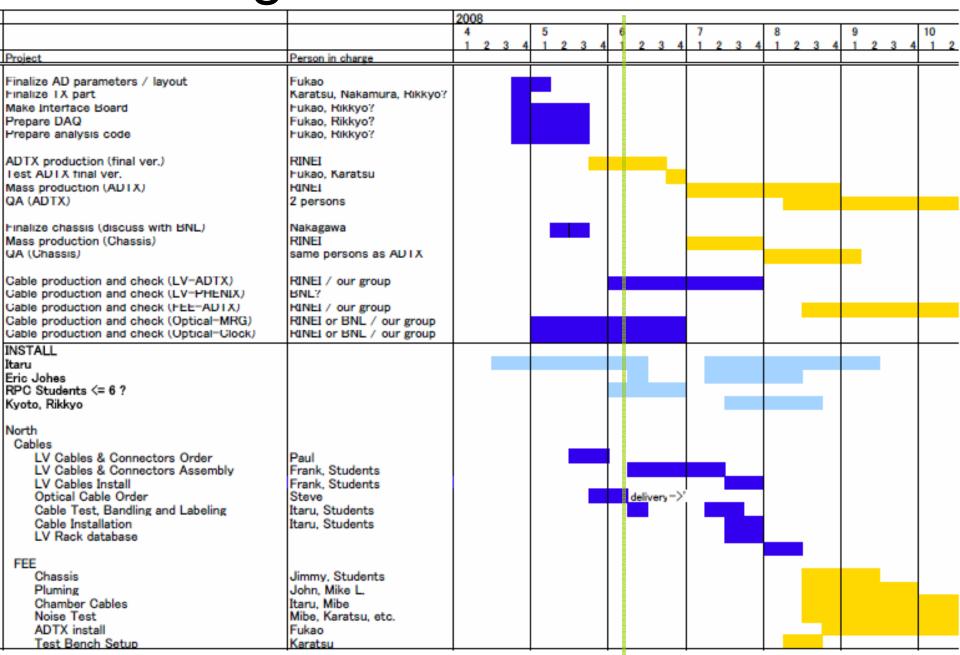


Sta 1 scaffolding is here.
To be built next week

Muon Trigger Updated Installation Schedule

RIKEN/RBRC
Itaru Nakagawa

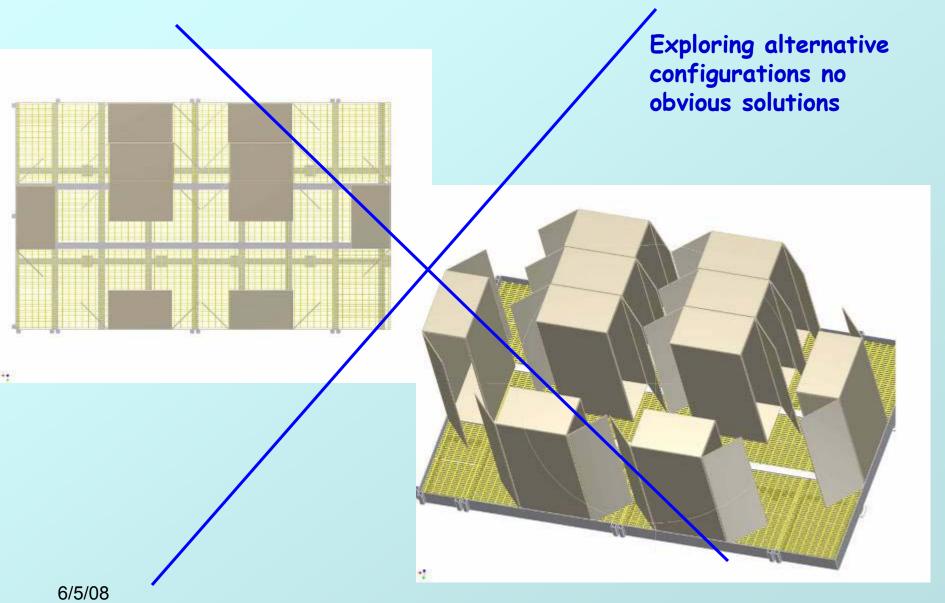
MuTrig Installation Schedule



Major Items

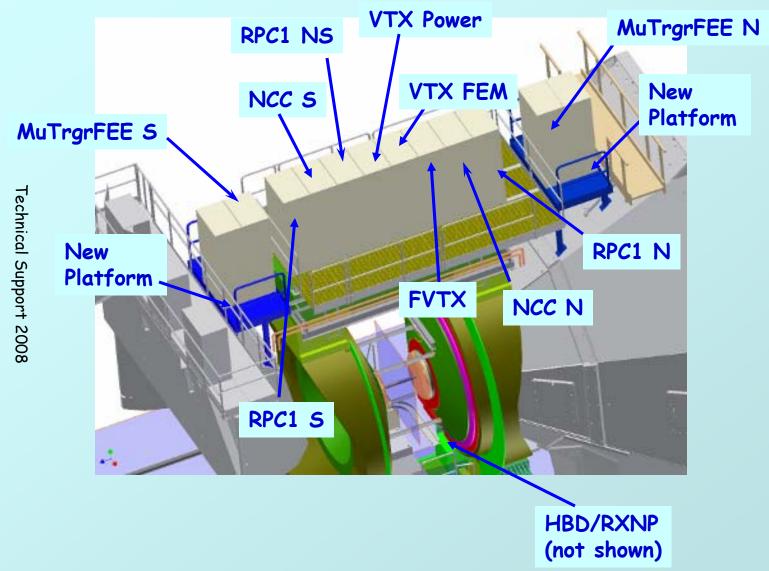
- LV/Optical Cable Bundle/Install
 - → Week 2 ~ 4, July
- Chassis Installation
 - → Week 2, August ~
- Chamber Cables Install & Noise Check
 - → Week 2, August ~
- ADTX Install
 - → Week 4, August ~







Detector upgrade Rack allotments

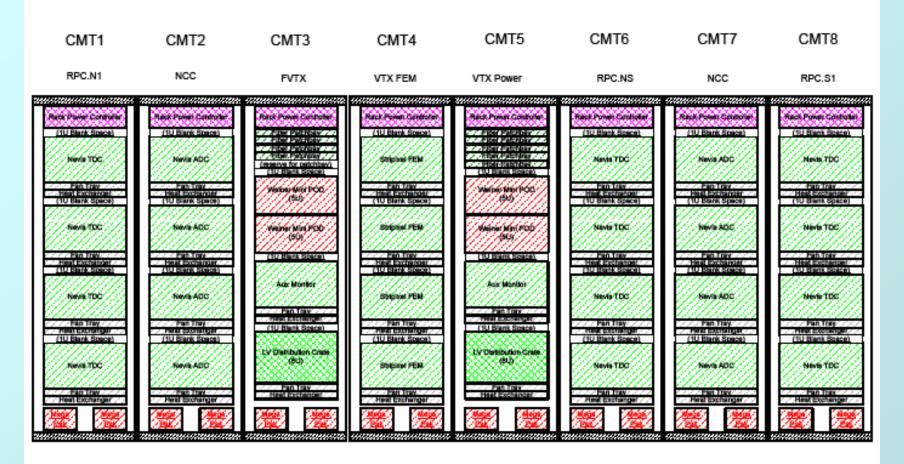


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Detector upgrade Rack layouts

PHENIX Bridge Racks



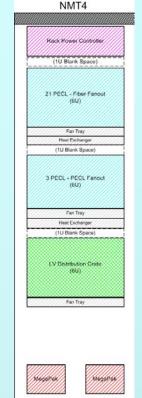
5. Boose 6/4/2008

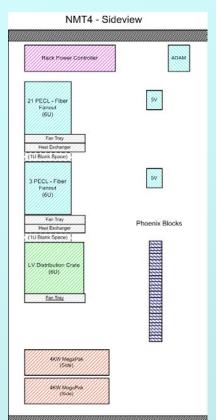


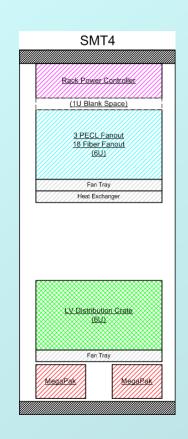
Technical Support 2008

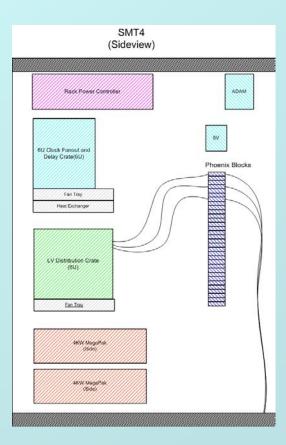
North

MuTrigger Racks South









Mike L. & Frank have begun prepping these. Need info on RPC prototype rack.

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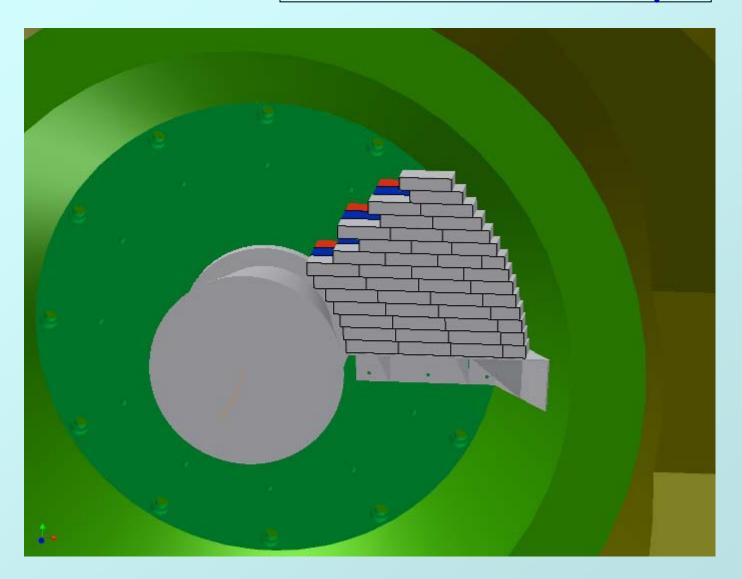
MuTrigger FEE Rack Utilities



Need to install
Tee's on supply and
return lines: both
s/b $\frac{3}{4}$ to supply Mu
Trigger North
rack and future
rack



RPC Absorber Concept





RPC Absorber Concept

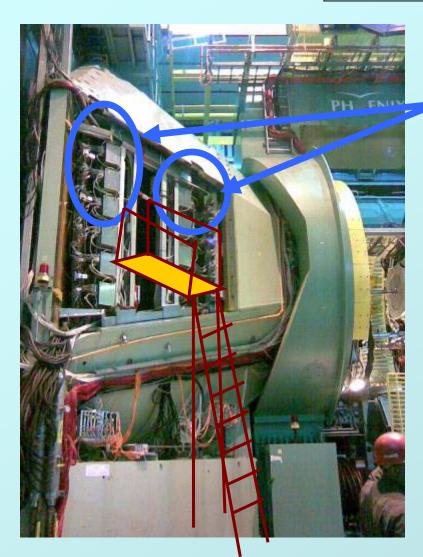


Uses 112 2x4x8 PB bricks, 22 need to be cut

12 inches deep (RPC group requsted 35 mm (13.8 in)



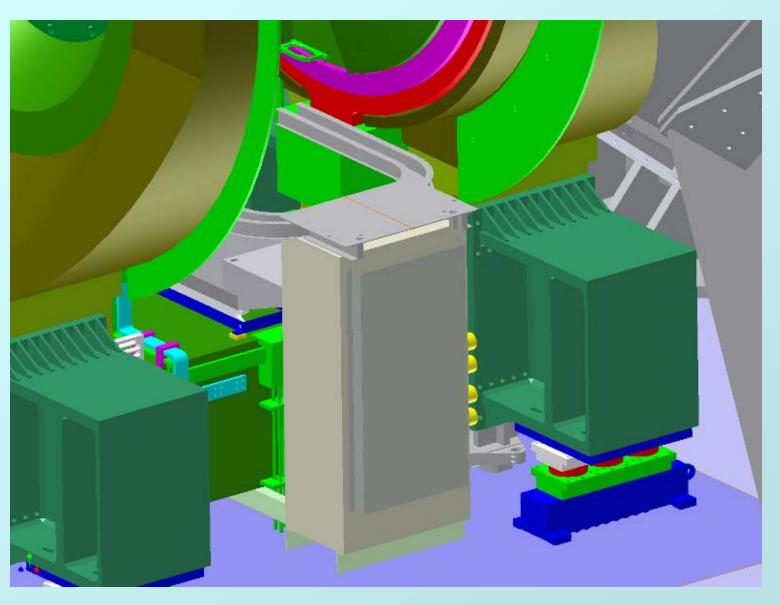
MuTrigger FEE upgrades in MMS in support of RPC prototypes



To match absorber and prototype RPC's, we need to install new FEE upgrades in these 5 MuTR FEE's

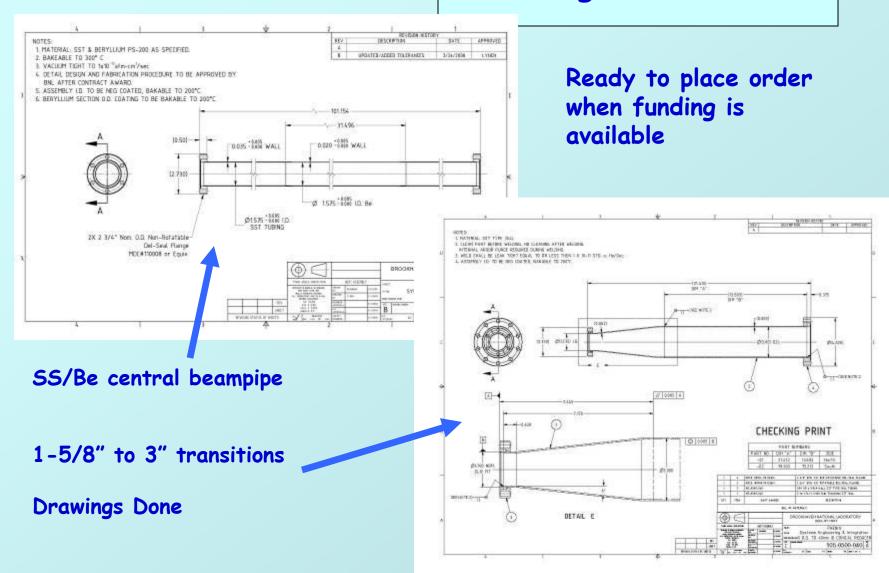
We will develop a plan to access these for installation and testing from a custom work platform (to be designed).

CM Access





New Beampipe Design & Review





Safety & Engineering Review Action Item Status

- 1. New Beampipe
- 2. Mu Trigger FEE upgrade installation
- 3. RPC Prototype Installation
- 4. MuTr MMN & Station 1 scaffolding
- 5. CM Crane

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Shutdown '08 Electrician Work

- 1) Upgrade Crane switch: arc flash mitigation-remotely operated contactor which will feed the IR crane disconnect switch
- 2) Mixing house safety bucket rewiring
- 2) Install HVAC cooling and/or fan power circuits into RPC tent. Install fans/cooling units.
- 3) Run Power to new MuTrgr FEE racks on MMN and MMS
- 4) Install <u>power</u> and <u>signal</u> cable tray (ceiling suspended) for new DCM rack row north of existing DCM racks.
- 5) Install power feeds to RPC north & south tunnel racks from IR power panels.

NOTE: MuTr north power panel has no available breakers to feed north tunnel racks (south panel has spare breakers for use). More engineering analysis is required to determine if the north power panel should be increased in size or for installation of a sub panel branch can be accomplished.

- 6) Assist in signal cable installation for MuTr/RPC upgrades as necessary.
- 7) Upgrade power capacity of Central Magnet power distribution for future bridge rack loads.
 - a) Remove existing 15KVA transformer and install 45KVA unit.
 - b) Install new (larger size) power cable from rack room to Central Magnet distribution breaker panels.
- 8) Install 120 volt AC power drops into new control room annunciator alarm rack (rack room).

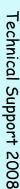


Work Permit Requirements

- CM Crane Installation
- RPC Prototype Installation
- · HBD re-installation
- PC1 Repairs

These WP's not needed until Sept.

(More will be needed - to be added to the list as appropriate)





PHENIC Engineering and Technical Support Group



Spreadsheets updated, please review/correct/return to D. Lynch ASAP. Next Integration meeting tomorrow

Shutdown Work \$\$\$

Projects Include:

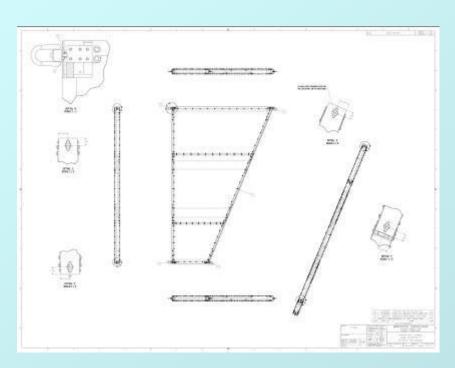
- 1. CM Crane
- 2. New 40 mm ID beampipe
- 3. RPC Factory
- 4. RPC Prototype Installation
- 5. RPC Final Installation
- 6. MuTrigger FEE Upgrade
- 7. CM Access Stairs
- 8. MuTr Decapitations
- 9. Gas House Reorganizationmaintenance
- 10. Bridge Rework
- 11. HBD Re-installation
- 12.DC East & West Repairs
- 13.PC1 Repair
- 14. Rack room UPS upgrade
- 15. Bridge Power upgrade
- 16. Rack Room Update
- 17. Detector Rack Fan tray replacement
- 18. Safety System Upgrade
- 19. Cooling Water system upgrade
- 20.DAQ/Trigger Upgrade
- 21.DCM II Development
- 22.VTX support
- 23.FVTX support
- 24.NCC support

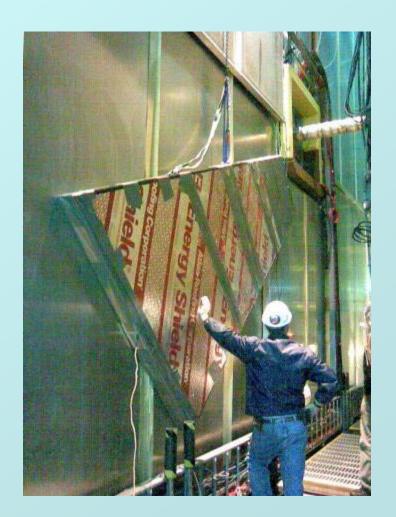
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RPC Prototype

Rec'd dim's and lifting points from Larry B.

Need to decide on prototype orientation and alignment for Sta 1 & 2 based on absorber location.





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RPC Factory Support, cont.

(2) ~3 Ton thru-the-wall AC's available from CA-D

208V Need isolated electrical source

Supplemental portable 1-1/4 ton unit ordered

Storage Shelving: 2 additional sets rec'd. Assembly is done.



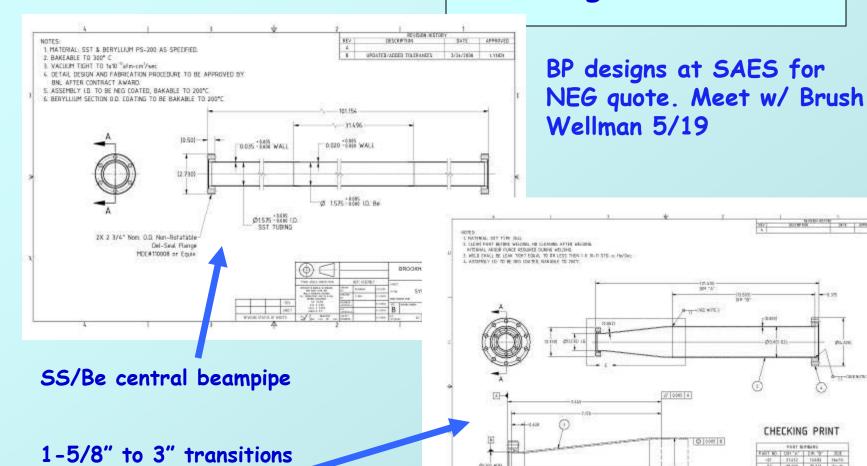






New Beampipe Design & Review

DETAIL E



6/5/08

Drawings Done, C-A getting

Quotes for NEG coating

DRODGINGER SATIONAL LACORATORY

CHECKING PRINT

PART MARKET



Safety, Security, etc.

3 die in Fla. after container gas leak, police say

'They lost their lives trying to help one another' co-worker says

Fort Lauderdale Fla. A classic confined space accident

Ar (odorless/colorless/ non toxic but displaces oxygen) leak in container ship: One went to investigate was overcome, 2 more tried to help and were overcome.

ISO 18001 & 14001 Registration Audit.: week of June 16

ISO14001: Environmental Management: compliance, pollution prevention, waste minimization, assurance

ISO18001: OHS/ISM Management: planning for hazard identification, risk assessment and risk control





Where To Find PHENIX Engineering Info

Links for the weekly planning meeting slides, long term planning, pictures, videos and other technical info can be found on the web site:

http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL_SSint-page.htm